

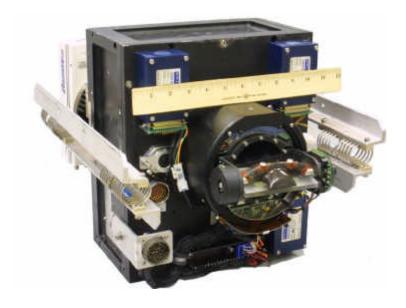
Date Revised: 30 JAN 03

VENDOR DESCRIPTION

The Advanced Airborne Hyperspectral Imaging VNIR-HSI System (AAHIS3+) combines state-ofthe-art, 12-bit optical imaging hardware, navigation and stabilization to provide a versatile hyperspectral sensor for a wide range of applications including ISR, MCM, SAR, littoral surveillance, and area spectral mapping.

AAHIS3+ has a spectral range of 390 to 840 nm and offers in-flight selectable frame rate, variable aperture control, and point to track or NADIR control, or preprogrammed ground tracks to survey an area with confidence there will be no "holidays" in the data. All data is radiometrically calibrated and geo-referenced.

To date, the system has flown on multiple fixedwing and rotary-wing aircraft.





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Hardware	
Power: 340 watts @ 28V	Operating Temp.: 0°C to 40°C
Weight: 30 kg / 66 lbs	Storage Temp.: -10°C to 60°C
Dimensions: 30cm x 30cm x 55cm / 11.8in x 11.8in x 21.7in	Interface: Configurable
Internal Volume: 0.05 m ³ / 1.75 ft ³	Bandwidth Required: 2.4 to 4.6 MB/s raw data depending on frame rate, spectral range and BW
In-Flight Manipulation of the Sensor: Yes	TCDL Compatibility: Yes
Able to Perform in an Environment with 15°/s Yaw & Pitch Rates	MTBSA: TBD hrs
Operating Altitude: 60 ft to 10,000 ft MSL	MTTR: TBD hrs

Performance	
Swath Width: 70% AGL (40° FOV)	Spectral Range: 390 nm to 840 nm
Along-Track IFOV: Selectable 0.48, 0.92, 1.84 mrad	Spectral Resolution: 1.2 nm/pixel
Cross-Track IFOV: 1.36 mrad	Selectable Spectral Range and BW
Pointing angle: Nadir ±15°	Selectable Frame Rates
Pointing Modes: Nadir, Point to Track	Variable Aperture
Sensor Type: Push-broom Hyperspectral	Selectable Camera Gain, Readout Rates
On-Board Storage Capacity for Continuous Collection: Configurable	
Geolocation Accuracy: 10 meters CEP	